Index of Claims

| Application/C | ontrol No. |
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Applicant(s)/Patent under Reexamination

10/789,276 Examiner

Art Unit

CHEON ET AL.

Taofiq A. Solola

1626

Rejected Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| Α | Appeal   |
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| Cla             | Claim Date |                 |          |           |          | Cla      | aim      | Date           |          |             |             |          |           | C         | laim           | Date      |           |               |                                |          |            |          |  |                   |          |          |          |               |                    |          |          |
|-----------------|------------|-----------------|----------|-----------|----------|----------|----------|----------------|----------|-------------|-------------|----------|-----------|-----------|----------------|-----------|-----------|---------------|--------------------------------|----------|------------|----------|--|-------------------|----------|----------|----------|---------------|--------------------|----------|----------|
|                 |            | 4               |          |           |          |          |          |                |          |             |             |          |           |           |                | П         |           |               |                                |          |            | T        |  | П                 |          | Ť        | П        | $\neg \tau$   | Т                  | Т        | $\neg$   |
| <del>-</del>    | na         | H               | 7        |           | ı        |          |          |                |          |             | <del></del> | nal      | l         |           |                |           |           | ı             |                                |          | _ ا        | <u>a</u> | 1  | ΙI                |          |          | ıl       | . 1           | . 1                |          |          |
| Final           | igi        | 12              | -        | - 1       | 1        |          |          |                |          |             | Final       | <u>.</u> | l         |           |                |           |           |               | 1                              |          | Final      | ·ā       |  | ŀ                 |          |          | ıl       |               | . 1                |          |          |
| "               | Original   | 425             |          |           |          |          |          |                |          |             | ш           | Original | l         |           |                | ı         |           |               | 1 1                            |          | ۳ ا        | Original |  | l                 |          |          | ıl       | . 1           | . 1                |          |          |
| <b>—</b>        |            |                 | $\perp$  | 4         | _        | _        | _        | $\Box$         |          | _           |             |          | Щ         | $\Box$    | _              | _         | _         |               | $\bot$                         |          | L          |          |  |                   |          |          |          | $\dashv$      | $\dashv$           | 4        | _        |
| $\perp$         |            |                 |          | $\perp$   | _        |          |          |                |          |             |             | 51       | Ш         |           |                | _         |           | ┸             | $\perp$                        |          |            | 101      |  | Ш                 |          |          |          |               | _                  |          | _        |
| 2_              | 2          | Ш               |          |           |          |          |          |                |          |             |             | 52       |           |           |                |           |           |               |                                |          |            | 102      |  | $\lfloor \rfloor$ |          |          |          |               |                    | $_{-}$   |          |
| 2<br>3<br>4     | 3          |                 |          |           |          |          |          |                |          |             | L           | 53       |           |           |                |           |           |               |                                |          |            | 103      |  |                   |          |          |          |               | $\Box$             |          |          |
| 14              | 4          |                 | - 1      | T         |          | $\neg$   |          |                |          |             |             | 54       |           |           |                |           | Т         | $\neg \vdash$ |                                |          |            | 104      |  | П                 |          |          | П        | П             | $\neg$             | П        | $\neg$   |
|                 | 5          |                 |          | П         |          | П        |          |                |          |             |             | 55       | П         |           |                | П         | Т         |               |                                |          |            | 105      |  | П                 |          |          | $\Box$   | $\neg$        | $\neg$             | ヿ        | ヿ        |
|                 | 6          | П               | $\neg$   | T         |          |          |          |                |          | -           |             | 56       | П         |           | $\neg$         | 一         | $\neg$    |               |                                |          |            | 106      |  | H                 | $\neg$   |          |          | $\neg$        | $\neg$             | $\dashv$ | ヿ        |
|                 | 7          |                 | $\dashv$ | ╛         | ╛        | •        |          |                |          |             |             | 57       | Ш         |           | $\neg \dagger$ | 十         | $\dashv$  | _             | 1                              |          |            | 107      |  | Н                 | ᅥ        | $\neg$   |          | $\neg$        | $\neg$             | _        | ᅥ        |
| $\vdash$        | 8          | Н               | $\dashv$ | ┪         | ╛        | 一        |          | $\neg$         |          | _           |             | 58       | Н         | $\dashv$  | $\dashv$       | -         | -+        | +             | +-                             |          | $\vdash$   | 108      | <del>                                     </del> | $\vdash$          | $\dashv$ |          | -1       | $\neg$        | $\dashv$           | $\dashv$ | ᅱ        |
| $\vdash$        | 9          | Н               | -        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |                |          | _           | $\vdash$    | 59       | H         | $\dashv$  | -              | $\dashv$  | -+        | +             | +                              |          | $\vdash$   | 109      | $\vdash$   | Н                 | $\dashv$ | -        | $\dashv$ | $\rightarrow$ | +                  | $\dashv$ | ⊣        |
| $\vdash$        | 10         | Н               | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$       | -        | -           | _           | 60       | ├─        | -         | $\dashv$       | ╅         | -+        | +             | +                              |          | $\vdash$   | 110      |  | Н                 | $\dashv$ |          | $\dashv$ | $\rightarrow$ | $\rightarrow$      | $\dashv$ | ᅱ        |
|                 |            | Н               | -        | $\dashv$  | -        | -        |          | $\vdash$       | -        |             | <u> </u>    |          | Н         | $\dashv$  | -              | $\dashv$  | -         |               | +                              |          |            |          | ├—   | $\vdash$          | $\dashv$ | _        |          | $\rightarrow$ |                    | -        | 긕        |
| <u> </u>        | 11         | $\vdash$        | -        | $\dashv$  | _        | _        | _        | Н              |          | <u> </u>    | <u> </u>    | 61       | $\vdash$  | $\vdash$  | $\dashv$       | $\dashv$  | -         | -             | +                              | $\sqcup$ | <u> — </u> | 111      | $\vdash$   | dash              | -        | _        |          |               | $\dashv$           | 4        | ᆜ        |
| <b></b>         | 12         | Ш               | $\vdash$ | -         | _        |          | _        | Щ              |          |             |             | 62       | Щ         | Щ         | $\perp$        |           | $\dashv$  |               | +                              | Щ        | <u> </u>   | 112      | $\vdash$   | $\sqcup$          | _        |          | Щ        |               | _                  | _        | ᆚ        |
| $\vdash$        | 13         | Ш               | $\sqcup$ | _         | _        | _        | _        | Ш              |          | <u> </u>    | igsqcut     | 63       | Щ         |           | 4              | _         | _         |               | $oldsymbol{oldsymbol{\sqcup}}$ | Щ        | L          | 113      | oxdot  | Ш                 |          |          | Ш        | $\perp$       | $\perp$            | ļ        | Ц        |
|                 | 14         | Ш               | $\Box$   |           |          |          |          |                |          | L           |             | 64       | Ш         |           |                | $\perp$   |           | _ _           | $\perp \perp$                  |          | <u></u>    | 114      |  | Ш                 |          |          |          |               |                    |          | _]       |
|                 | 15         |                 |          |           |          |          |          |                |          |             |             | 65       | $\Box$    |           |                |           | $\Box$    |               | $oldsymbol{\perp}$             |          |            | 115      |  |                   |          |          |          |               |                    |          |          |
|                 | 16         |                 |          | $_{ m I}$ |          |          | ]        |                |          | L           |             | 66       |           |           |                | T         | _T        |               |                                |          |            | 116      |  |                   |          |          |          | П             | T                  |          | $\neg$   |
|                 | 17         | П               |          | T         |          |          |          |                |          |             |             | 67       |           |           |                | T         |           | $\top$        |                                |          |            | 117      |  |                   |          |          |          | П             | $\neg$             |          | $\neg$   |
|                 | 18         |                 |          | T         |          |          |          |                |          |             |             | 68       |           |           |                | $\neg$    | $\neg$    | $\top$        | $\Box$                         |          |            | 118      | Г  | П                 |          |          |          | $\Box$        | $\Box$             | T        | $\neg$   |
|                 | 19         | П               |          | $\dashv$  | $\neg$   |          |          |                |          |             |             | 69       |           |           |                |           | $\neg$    |               | 11                             |          |            | 119      | T  | $\Box$            | _        |          |          | $\neg$        | 一                  | 寸        | ヿ        |
|                 | 20         | П               | T        | 寸         |          |          | $\neg$   |                |          | $\vdash$    |             | 70       | Н         |           | $\neg$         | 十         | _         | _             | 1 1                            |          |            | 120      | T  | Н                 | $\neg$   |          |          | $\dashv$      | $\dashv$           | 寸        | $\dashv$ |
|                 | 21         | П               | $\neg$   | 寸         | _        |          | _        |                |          | $\vdash$    |             | 71       | Н         |           | 一              | 十         | _         | +             | +                              | <b></b>  |            | 121      | ╁  | $\vdash$          | $\dashv$ |          | $\neg$   | $\dashv$      | $\dashv$           | ╛        | ᅥ        |
|                 | 22         | Н               | $\dashv$ | $\dashv$  | $\dashv$ |          | -        | $\vdash$       |          | $\vdash$    | $\vdash$    | 72       | Н         |           | $\dashv$       | $\dashv$  |           | +             | +                              | -        | -          | 122      | ╁  | Н                 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | +                  | $\dashv$ | ᅥ        |
|                 | 23         | Н               |          | $\dashv$  | -        |          | -        | $\vdash$       |          | $\vdash$    | <del></del> | 73       | Н         |           | -              | $\dashv$  | -         |               | ╅                              | $\dashv$ | $\vdash$   | 123      | ╁  | Н                 | $\dashv$ | -        | $\dashv$ | $\vdash$      | $\dashv$           | -        | $\dashv$ |
| -               | 24         |                 | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$       |          | <del></del> |             | 74       | Н         | $\dashv$  |                | -+        | -         |               | +-1                            | H        |            | 124      | ╁  | $\vdash$          | -        |          | $\dashv$ | $\dashv$      | $\dashv$           | -        | ᅱ        |
| -               | 25         | Н               | +        | $\dashv$  | $\dashv$ | -        |          |                |          | _           |             | 75       | Н         | -         | -              | +         | +         | +             | 1-1                            |          | $\vdash$   | 125      | ┢  | ⊢                 | $\dashv$ | -        | $\dashv$ | $\dashv$      | -                  | -        | ᅱ        |
| <u> </u>        | 26         | Н               | -        | $\dashv$  | $\dashv$ | -        | -        | -              |          | -           | <del></del> | 76       | H         | $\dashv$  | $\rightarrow$  | $\dashv$  | $\dashv$  |               | ╂╼┥                            |          | <b>-</b>   | 126      | ┢  | $\vdash$          | $\dashv$ | -        | $\dashv$ | _             | $\dashv$           | -        | $\dashv$ |
| <u> </u>        | 27         | -               | $\vdash$ | -+        | 1        | $\dashv$ | -        | $\dashv$       |          |             |             |          | H         | $\dashv$  | $\dashv$       | +         | -+        | +             | +                              | H        | <u> </u>   | 120      | ⊢  | $\vdash$          |          |          |          | -             | +                  | $\dashv$ | $\dashv$ |
|                 |            |                 |          | +         |          | $\dashv$ | -        | $\dashv$       |          | _           |             | 77       | -         | -         | -              | -         | +         | +             | +                              |          |            | 127      | ├  | Н                 | $\dashv$ | $\vdash$ | $\dashv$ | $\rightarrow$ | $\dashv$           | -        | ᅴ        |
| <u> </u>        | 28         | Н               |          | +         | -        | -        | -        | $\dashv$       | _        |             | <u> </u>    | 78       | $\vdash$  | $\dashv$  |                | $\dashv$  | +         | -             | +                              | <u> </u> | <u> </u>   | 128      | ⊢  | $\vdash$          | $\dashv$ |          | $\dashv$ | -+            |                    | 4        | $\dashv$ |
| <u> </u>        | 29         |                 |          | 4         | -        | $\dashv$ | _        |                |          |             |             | 79       | ļ.,       |           | _              | 4         | +         | _             | 1 1                            | <u> </u> | <u> </u>   | 129      | <u> </u>   |                   | _        |          | $\dashv$ |               |                    | _        | ᅴ        |
| L               | 30         |                 |          | _         | _        | _        | _        | $\blacksquare$ |          |             |             | 80       | Щ         |           | _              | _         | 4         |               | $\bot$                         |          |            | 130      | L  | Ш                 | _        |          | Ш        |               |                    | _        | _        |
|                 | 31         |                 |          | _         | _        | _        | _        | $\Box$         |          |             |             | 81       | Ш         |           |                | _         |           |               | $\bot$                         |          | <u> </u>   | 131      |  | Щ                 | _        |          |          |               | $\perp$            |          | ᅵ        |
|                 | 32         | Ш               |          | _         | _        | _        |          |                |          |             |             | 82       | Ш         |           | $\perp$        | _         |           |               | $\perp$                        |          |            | 132      | L  | Ш                 |          |          |          |               | $\perp$            |          |          |
|                 | 33         |                 |          |           | ┙        |          |          |                |          |             |             | 83       |           |           |                |           | $\perp$   |               |                                |          |            | 133      |  |                   |          |          |          |               | $oldsymbol{\perp}$ |          |          |
| لــــا          | 34         | Ш               |          |           |          |          |          |                |          |             |             | 84       | $\square$ |           |                |           |           |               |                                |          |            | 134      |  |                   | ]        |          |          |               |                    |          |          |
|                 | 35         |                 |          |           |          | I        |          |                |          |             |             | 85       | L         |           | $\Box$         | $_{ m I}$ | $_{ m I}$ |               |                                |          |            | 135      |  |                   | ]        |          |          |               |                    |          |          |
|                 | 36         |                 |          | _T        | [        | _7       | T        |                |          |             |             | 86       |           |           |                | Т         | T         |               |                                |          |            | 136      |  | $\Box$            |          |          | П        | П             | T                  |          |          |
|                 | 37         |                 | $\Box$   | П         | П        | $\neg$   |          |                |          |             |             | 87       |           |           | T              |           | $\top$    | 1             | 77                             |          |            | 137      | Γ  | П                 |          |          | $\neg$   |               | $\neg$             | 寸        | П        |
|                 | 38         |                 |          | $\neg$    |          |          | $\neg$   |                |          |             |             | 88       | П         |           | $\neg$         | $\neg$    | $\top$    | T             | $\top$                         |          |            | 138      | $\Box$   | H                 | $\neg$   |          | $\dashv$ | 一             | $\neg$             | $\neg$   | ᅱ        |
|                 | 39         |                 |          | $\neg$    | $\neg$   | 一        |          |                |          |             |             | 89       | П         |           | 寸              | $\dashv$  | $\neg$    | $\top$        | $\top$                         |          |            | 139      | 1  | П                 | $\neg$   |          | $\neg$   | $\Box$        | o                  | 一        | $\dashv$ |
|                 | 40         | П               | $\neg$   | 寸         | $\neg$   | $\dashv$ | $\neg$   |                |          |             |             | 90       | П         |           | 一              | 寸         | _         | 1             | 11                             |          | -          | 140      | Т  | H                 |          |          | $\dashv$ | $\neg$        | $\neg \uparrow$    | $\dashv$ | $\dashv$ |
|                 | 41         | Н               |          | 7         | _        | $\dashv$ | $\neg$   |                |          |             |             | 91       | Н         |           | $\dashv$       | 十         | +         |               | 11                             |          | $\vdash$   | 141      | $\vdash$   | H                 | $\dashv$ |          | $\dashv$ | $\neg$        | $\dashv$           | _        | $\dashv$ |
|                 | 42         | H               | $\dashv$ | 寸         | _        | $\dashv$ |          |                |          |             |             | 92       | H         |           | $\dashv$       | $\dashv$  | 十         |               | 1-1                            | H        | $\vdash$   | 142      | $\vdash$   | $\vdash$          | -        | $\neg$   | $\dashv$ | $\dashv$      | $\dashv$           | -        | $\dashv$ |
| $\vdash$        | 43         | $\vdash$        | -        | 十         | ᅥ        | $\dashv$ | $\neg$   |                |          |             |             | 93       | $\vdash$  | -         | $\dashv$       | $\dashv$  | 十         | -             | +                              | H        | $\vdash$   | 143      | $\vdash$   | ┝╌┤               | $\dashv$ | -        | $\dashv$ | $\dashv$      | $\dashv$           | -        | ᅱ        |
| $\vdash$        | 44         | $\vdash \vdash$ | -+       | $\dashv$  | $\dashv$ | $\dashv$ | -        |                |          |             |             | 94       | $\vdash$  | $\dashv$  | $\dashv$       | +         | $\dashv$  | +             | +                              | H        | $\vdash$   | 144      | +  | $\vdash \vdash$   | $\dashv$ |          |          | $\vdash$      | $\dashv$           | $\dashv$ | $\dashv$ |
|                 | 45         | $\vdash$        | -        | $\dashv$  | $\dashv$ | -        | $\dashv$ | $\vdash$       |          | $\vdash$    | <u> </u>    | 95       | Н         |           | $\dashv$       | $\dashv$  | +         |               | +-                             | H        | $\vdash$   | 145      | ┢  | H                 | -        |          |          | $\dashv$      |                    | $\dashv$ | 一        |
| $\vdash$        | 46         | $\vdash$        | -+       | $\dashv$  | $\dashv$ |          |          |                |          | $\vdash$    | $\vdash$    | 96       | $\vdash$  | -         | $\dashv$       | +         | $\dashv$  | +-            | ╅╼┤                            |          | $\vdash$   |          | $\vdash$   | $\vdash$          | -        | -        | $\dashv$ | $\dashv$      | +                  | -        | $\dashv$ |
| $\vdash \vdash$ | 47         | $\vdash \vdash$ | +        | +         | -        | $\dashv$ |          | $\dashv$       | -        | -           | <u> </u>    | 97       | ├┤        | $\dashv$  | -              | +         | $\dashv$  | +-            | +                              |          | $\vdash$   | 146      | $\vdash$   | $\vdash \vdash$   | -        |          | $\dashv$ |               | -                  | 4        | ᅴ        |
| $\vdash$        | 48         | $\vdash$        | $\dashv$ | $\dashv$  | -        | $\dashv$ | -        |                | $\dashv$ | $\vdash$    | <del></del> |          | $\vdash$  | -         |                | +         | -         | +             | +-+                            |          | <u> </u>   | 147      | ⊢  | $\vdash \vdash$   |          | -        | $\dashv$ | $\dashv$      | -                  |          | $\dashv$ |
|                 |            | $\vdash$        | $\dashv$ | +         | -        | -        |          |                |          |             | <u> </u>    | 98       | Н         |           | -              | +         | $\dashv$  | +             | +                              | ::::     | <u> — </u> | 148      |  | dash              |          |          | $\dashv$ | $\dashv$      | -                  | _        | 괵        |
| <u> </u>        | 49         | $\vdash$        | -        | $\dashv$  | -        |          |          |                | -        |             | <u> </u>    | 99       | $\vdash$  | $\square$ | -              | +         | -         | +             | +                              |          | <u> </u>   | 149      | ⊢  | $\vdash \vdash$   | -        |          |          | _             | $\dashv$           | _        | ᅴ        |
| لــــا          | 50         | Ш               |          | $\perp$   |          |          |          |                |          |             | <br>لـــــا | 100      | لـــا     |           |                | 丄         |           |               | $\perp$                        | :::      | <u> </u>   | 150      |  | Ш                 |          |          |          |               |                    |          |          |